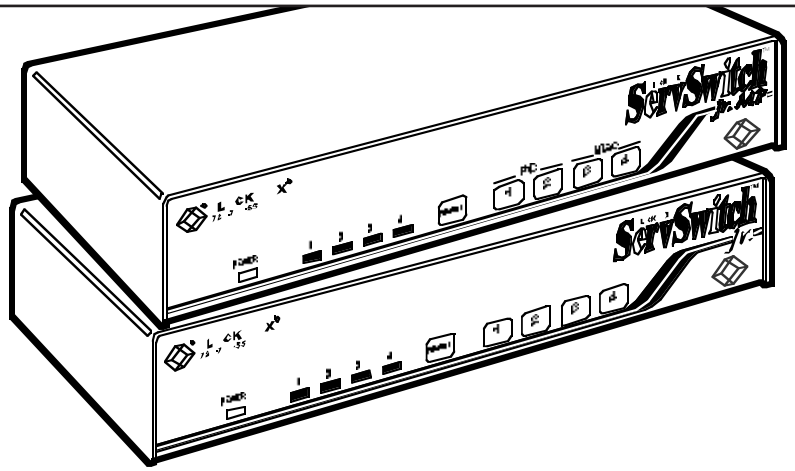
BLACK BOX®
NETWORK SERVICES

ServSwitch Jr. and ServSwitch Jr. MP



Manage a few IBM PS/2 or PC/AT compatible CPUs—plus one or two Mac CPUs if you want—using a single keyboard, mouse, and monitor.

Key Features

ServSwitch Jr.:

- ***Access up to 4 IBM PC/AT or PS/2 type CPUs with a single monitor, PS/2 or PC/AT keyboard, and PS/2 or serial mouse.***

ServSwitch Jr. MP:

- ***Access one or two IBM type CPUs and one or two Mac CPUs with a single monitor, PS/2 keyboard, and PS/2 mouse.***

Both Models:

- ***Use any of a variety of video types at resolutions up to 1600 x 1280.***
- ***Now fully support Microsoft IntelliMouse™.***

If you'll only need to switch between up to four PCs or servers for the foreseeable future, why spend a fortune on an electronic keyboard/video/mouse switch with a gazillion ports or fancy cascading features?

Our ServSwitch Jr.™ is just right for small-scale applications: workgroups, small offices, home offices, you name it. Use one monitor, keyboard, and mouse to control IBM® PC compatible (and, on MP models, Apple® Macintosh® compatible) computer or server CPUs.

With the regular ServSwitch Jr., access either two IBM type CPUs (with the SW621A-R2) or as many as four (with the SW622A-R2). With the ServSwitch Jr. MP, access one IBM type CPU and one Mac® type CPU (with the SW627A-R2) or one or two of each type (with the SW628A-R2).

Setting up is easy. Using their own cables, plug your VGA or XGA monitor, keyboard, and mouse directly into the ServSwitch Jr. Attach each of the computers to the Switch using a special CPU Adapter Cable that has a single connector on the Switch end and three connectors (for keyboard, mouse, and video I/O) on the computer end. These CPU Adapter Cables help keep cabling simple; also, the coax versions can be run longer distances than normal keyboard, mouse, or video cable.

As long as you connect it with the right type of CPU Adapter Cable, it doesn't matter what general type of keyboard and mouse any given IBM type computer uses. As for user-station equipment, use a regular or wheel-type PS/2 mouse and PS/2 keyboard with the ServSwitch Jr. MP. With the regular ServSwitch Jr., attach either a PS/2® or PC/AT® style keyboard and either a PS/2 mouse (regular or wheel type) or (if there are no PS/2 type CPUs attached) an RS-232 mouse: Except for RS-232 mouse input to PS/2 mouse output, the Switch can perform all of the various conversions internally.

The Switch also seamlessly handles VGA, SVGA, or XGA video at resolutions up to 1600 x 1280 pixels, although higher resolutions, refresh rates, or distances will require coaxial CPU Adapter Cables. (On MP models, to get Mac video in resolutions other than 640 x 480 pixels, you'll need the Mac Adapter for ServSwitch, our product code KV99MA.)

To switch between CPUs, you can either press the port-selection membrane buttons on the Switch's front panel or send switching commands from the shared keyboard. (Other keyboard commands control port scanning and configuration functions; see Technically Speaking on the next page. Configuration settings can be saved in nonvolatile memory, so they'll be preserved even if the Switch loses power.)

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(continued from page 1)

The ServSwitch Jr. doesn't even have to be plugged in—it draws its power from the keyboard and mouse interfaces of the attached CPUs while the ServSwitch Jr. MP has its own external power supply. And both are small enough to fit on a cramped desktop or even in one rack unit (rackmount kits are available).

Black Box offers the best warranty program in the industry—Fido Protection℠. For more information, request **FaxBack 22512**.

Reduce equipment clutter and operate multiple PCs with a single keyboard, monitor, and mouse.

- Microprocessor-controlled keyboard and mouse switching.
- Support all modes of PS/2® and PC/AT® compatible keyboards.
- Simultaneously support CPUs with either PS/2 or RS-232/V.24 mouse ports.
- You can select the desired CPU from keyboard or front panel.

Specifications

Standards —
With original Serv Cabling:
VGA (colour, monochrome, or page white);
With original Serv Cabling (minimal) or coaxial cabling (recommended): SVGA video;
With coaxial cabling: XGA (color or monochrome) video;
With special cabling: True monochrome or 951x video;
MP models only: Apple Macintosh video

Interfaces — To user station:
All models:
VGA/SVGA/XGA video; IBM PS/2 keyboard & mouse (including Microsoft IntelliMouse);
SW621A-R2, SW622A-R2 only:
PC/AT keyboard; IBM serial (EIA/TIA RS-232 pinned as TIA-574) mouse;

To computer:
All ports on regular models and PC ports on MP models:
Proprietary composite of:
- VGA/SVGA/XGA video,
- PS/2 or (with adapter) PC/AT keyboard, and
- PS/2 or (with adapter) serial (EIA/TIA RS-232 pinned as TIA-574) mouse;

Mac ports on MP models:
Proprietary composite of Apple Macintosh video, keyboard, and mouse

Resolutions —
With original Serv cabling: Up to 1024 x 768 noninterlaced, at up to 75 Hz;
With coaxial or special cabling: Up to 1600 x 1280 noninterlaced, at up to 100 Hz;
On MP models, Mac resolutions other than 640 x 480 might require a Mac Adapter for ServSwitch (KV99MA)

Maximum Distance —
Depending on the CPU, monitor, and video resolution, either:
6.1 m of original Serv cable from the ServSwitch Jr. to any CPU; or
15.2 m of coaxial cable—possibly more, depending on CPUs—from any ServSwitch Jr. to any device attached to it

Connectors — All rear-mounted;
All Models:
VGA Monitor Port: HD15 F;
PS/2 Keyboard and PS/2 Mouse Ports:
6-pin mini-DIN F;
Computer Ports: DB25 F;
SW621A-R2, SW622A-R2 only:
AT Keyboard Port:
5-pin DIN F;
RS-232 Mouse Port: DB9 M

User Controls —
Keyboard commands; Front-mounted RESET and numbered port-selection membrane pushbuttons

Indicators —
Front-mounted STATUS and numbered current-port LEDs

Maximum Altitude —
3048 m

Temperature Tolerance —
0 to 55°C

Humidity Tolerance —
5 to 80% noncondensing

Enclosure — Steel

Power —
SW621A-R2, SW622A-R2:
5 VDC from attached CPUs keyboard or mouse ports;
SW627A-R2, SW628A-R2:
External power supply; 5 VDC @ up to 1 amp, either from the keyboard-power leads of the attached computers or from the included PS255 external power supply; Input: 115-230 VAC @ 50 or 60 Hz from utility power (mains outlet) through detachable input cord and IEC 320 male inlet on transformer

Size —
H5.7 x W22.4 x D8.9 cm

Weight —
Net: 1.4 kg;
Shipping: 1.8 kg

What you get:

- The main unit.
- A user's manual.

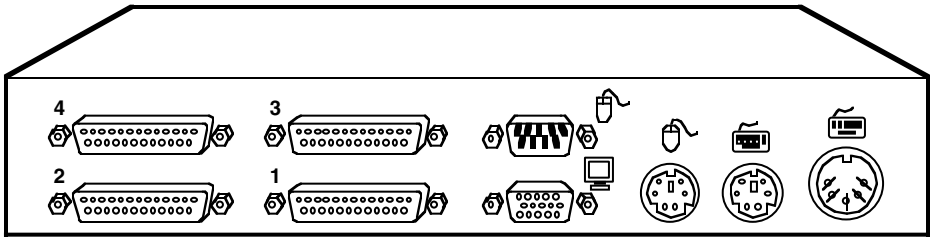
Additional equipment you'll need:

- An IBM—preferably PS/2 — type keyboard and mouse. (If you use a PS/2 mouse, it can be a regular two- or three-button type or a "wheel" mouse such as the Microsoft® IntelliMouse™.
- A monitor compatible with all of the CPUs video cards, capable of syncing to each CPU's video-output resolutions and frequencies.
- CPU Adapter Cables to connect your CPUs to the ServSwitch.

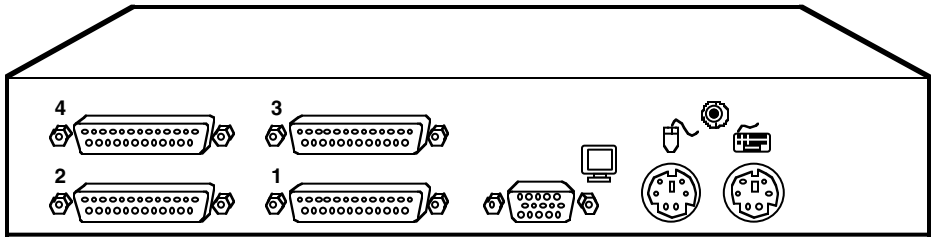
You might also need:

- A rackmount kit.

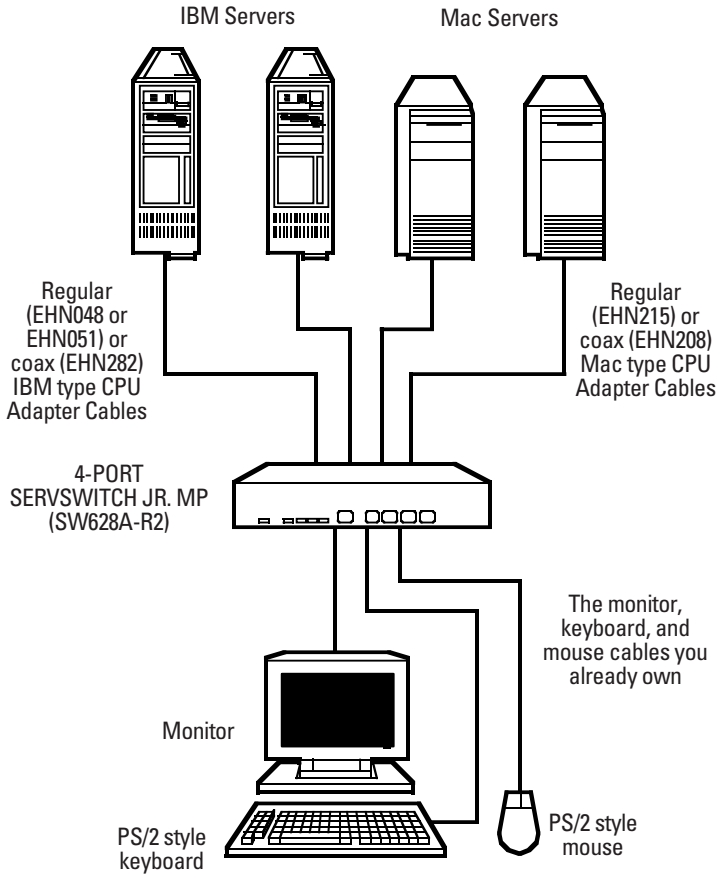
Plug PC compatible keyboards, mice, and monitors directly into the ServSwitch Jr.'s rear panel…



…or, plug a VGA or multisync monitor and a PS/2 keyboard and mouse directly into the ServSwitch Jr. MP.



The layout of a typical ServSwitch Jr. system—see how simple it is?


IBM Servers
Mac Servers
Regular (EHN048 or EHN051) or coax (EHN282) IBM type CPU Adapter Cables
Regular (EHN215) or coax (EHN208) Mac type CPU Adapter Cables
4-PORT SERVSWITCH JR. MP (SW628A-R2)
The monitor, keyboard, and mouse cables you already own
Monitor
PS/2 style keyboard
PS/2 style mouse

Ordering Information

ITEM	CODE
2-Port ServSwitch Jr. (PC Only)	SW621A-R2
4-Port ServSwitch Jr. (PC Only)	SW622A-R2
2-Port ServSwitch Jr. MP (1 PC Port, 1 Mac Port)	SW627A-R2
4-Port ServSwitch Jr. MP (2 PC Ports, 2 Mac Ports)	SW628A-R2
CPU Adapter Cables for:	
VGA video output, IBM PS / 2 keyboard and mouse input (standard)	EHN051-0xxx*
VGA video output, IBM PC / AT keyboard input, RS-232 serial mouse input (standard)	EHN048-0xxx*
VGA video output, IBM PS / 2 keyboard and mouse input (coaxial) plus PC / AT keyboard-port and RS-232 serial mouse-port adapters	EHN282-0xxx*
Mac video output, Mac keyboard / mouse input (standard)	EHN215-xxx*
Mac video output, Mac keyboard / mouse input (coaxial)	EHN208-xxx*

OPTIONAL ACCESSORIES	CODE
19" Rackmount Kit	RMK19M
23" Rackmount Kit	RMK23M
24" Rackmount Kit	RMK24M
Mac Adapter for ServSwitch	KV99MA

*For the CPU Adapter Cables, xxx's are shown in place of the last three digits of the product code because the cables come in several stock lengths. The last three digits can be "005," "010," or "020" for 5-foot (1.5-m), 10-foot (3-m), or 20-foot (6.1-m) cables respectively.